

What is Claimed:

1. A system for multi-environment testing automation comprising:
 - a Test Store in which a at least one Test is stored;
 - a Test Document that describes at least one Test that can be executed in at least two testing environments; and
 - a Test Driver that interprets said Test Document to execute at least one Test described by said Test Document.
2. The system of claim 1 wherein said one Test that is described by said Test Document can be executed in an HTTP environment and one additional environment.
3. The system of claim 1 wherein said one Test that is described by said Test Document can be executed in a SQL environment and one additional environment.
4. The system of claim 1 further comprising at least one Execution Variable corresponding to said Test and comprising data that does not comprise data in said Test.
5. The system of claim 1 further comprising a Test Editor for authoring a Test Document.
6. The system of claim 1 further comprising a Test Transform that would transform an existing Test in a first Test Document into a new Test in a second Test Document.
7. A system for executing Tests, said Tests comprising at least one Task where each of said at least one Task comprises at least one Step, said system comprising:
 - an Executor subsystem that executes at least one Step and generates at least one Execution Result; and
 - a Verifier for comparing at least one Execution Result to at least one Expected Result.

8. The system of claim 7 further comprising a Filter for filtering at least one Execution Result generated by said Executor before said at least one Execution Result is compared by said Verifier to said at least one Expected Result.
9. A method of testing automation in a plurality of environments, said method comprising:
 - grouping at least one Test into a Test Store, said Test Store comprising data pertaining to Tests it contains, said Test being able to be executed in at least two environments;
 - describing a nature of at least one Test in at least one Test Document, wherein said nature comprises information regarding a means for verifying a result derived from said Test and a description of what constitutes a correct results for said Test;
 - interpreting at least one Test Documents to execute at least one Test
 - verifying whether said at least one Test passes or fails.
10. The method of claim 9 further comprising the utilization least one Execution Variable corresponding to said Test and comprising data that does not comprise data in said Test.
11. The method of claim 9 further comprising transforming a Test in a first Test Document into a new Test for a second Test Document.
12. The method of claim 9 wherein said Test Store is implemented as an abstraction that allows a plurality of Test Documents to be stored in at least two different formats.
13. The method of claim 9 wherein said Test Store further comprises functionality for browsing, saving, and retrieving a Test Document.
14. The method of claim 9 wherein an organization of Tests in a Store Test is automatically updated based on at least one criteria from among the following plurality of criteria: the manner in which one or more Tests are executed; the frequency in which one or more Tests are executed; and the most common environment in which one or more Tests are executed.
15. A computer-readable medium comprising computer-readable instructions for:

a Test Store in which a at least one Test is stored;
a Test Document that describes at least one Test that can be executed in at least two testing environments; and
a Test Driver that interprets said Test Document to execute at least one Test described by said Test Document.

16. The computer-readable instructions of claim 15 further comprising instructions for executing said one Test that is described by said Test Document in an HTTP environment and one additional environment.

17. The computer-readable instructions of claim 15 further comprising instructions for executing said one Test that is described by said Test Document in a SQL environment and one additional environment.

18. The computer-readable instructions of claim 15 further comprising instructions whereby at least one Execution Variable corresponding to said Test and comprising data that does not comprise data in said Test is utilized in executing said Test.

19. The computer-readable instructions of claim 15 further comprising instructions for a Test Editor to author a Test Document.

20. The computer-readable instructions of claim 15 further comprising instructions for a Test Transform for transforming an existing Test in a first Test Document into a new Test in a second Test Document.

21. The computer-readable instructions of claim 15, wherein at least one Test comprises at least one Task, and wherein each of said at least one Task comprises at least one Step, said computer-readable instructions further comprising instructions for:

an Executor subsystem that executes at least one Step and generates at least one Execution Result; and
a Verifier for comparing at least one Execution Result to at least one Expected Result.

22. The computer-readable instructions of claim 21 further comprising instructions for a Filter for filtering at least one Execution Result generated by said Executor before said at least one Execution Result is compared by said Verifier to said at least one Expected Result.
23. The computer-readable instructions of claim 15 further comprising instructions for:
grouping at least one Test into a Test Store, said Test Store comprising data pertaining to Tests it contains, said Test being able to be executed in at least two environments;
describing a nature of at least one Test in at least one Test Document, wherein said nature comprises information regarding a means for verifying a result derived from said Test and a description of what constitutes a correct results for said Test;
interpreting at least one Test Documents to execute at least one Test
verifying whether said at least one Test passes or fails.
24. The computer-readable instructions of claim 23 further comprising instructions for utilizing least one Execution Variable corresponding to said Test and comprising data that does not comprise data in said Test.
25. The computer-readable instructions of claim 23 further comprising instructions for transforming a Test in a first Test Document into a new Test for a second Test Document.
26. The computer-readable instructions of claim 23 further comprising instructions for implementing said Test Store as an abstraction that allows a plurality of Test Documents to be stored in at least two different formats.
27. The computer-readable instructions of claim 23 further comprising instructions for browsing, saving, and retrieving a Test Document.
28. The computer-readable instructions of claim 23 further comprising instructions for automatically updating an organizational structure for a plurality of Tests in a Test Document based on at least one criteria from among the following plurality of criteria: the manner in which

MSFT-2957/307010.01

one or more Tests are executed; the frequency in which one or more Tests are executed; and the most common environment in which one or more Tests are executed.